

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☒GAS
WELL ☐OTHER ☐SINGLE
ZONE ☐MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

Burton/Hawks Drilling, Inc. - Madex

3. ADDRESS OF OPERATOR

P.O. Box 359, Casper, Wyoming 82602

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)

At surface

330' FWL 330' ^S Section 1, T20S, R23E, S.L.B. 1 M.
At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

9 miles North of Cisco, Utah

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any)

16. NO. OF ACRES IN LEASE

600

17. NO. OF ACRES ASSIGNED
TO THIS WELL

40

18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.19. PROPOSED DEPTH
2900'20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

Ungraded ground 4769' elevation

22. APPROX. DATE WORK WILL START*

September 1, 1979

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
11"	8-5/8"	24.16	200'	To surface
7-7/8"	4-1/2"	10.60	2700'	Across pay

1. Drill 11' hole to 200', set 8-5/8" casing, cement to surface
2. Drill 7-7/8" hole to approximately 2700'.
3. Run 4-1/2" casing if productive
4. P&A per USGS instructions if dry hole.

Bond coverage provided under Nationwide Oil & Gas Bond No. 4414852

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout prevention program, if any.

24.

SIGNED

TITLE

DATE June 19, 1979

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

STATE OF UTAH
DIVISION OF OIL, GAS, AND MINING

** FILE NOTATIONS **

Date: August 7, 1979

Operator: Burton/Hawks Drilling, Inc.

Well No: East Cisco - Fed. #1-1

Location: Sec. 1 T. 20S R. 23E County: Grand

File Prepared: ☒

Entered on N.I.D.: ☒

Card Indexed: ☒

Completion Sheet: ☒

✓ API Number: 43-019-30536

CHECKED BY:

Administrative Assistant: _____

Remarks:

Petroleum Engineer: M. J. Minder 8-10-79

Remarks:

Director: 7

Remarks:

INCLUDE WITHIN APPROVAL LETTER:

Bond Required: ☐

Survey Plat Required: ☐

Order No. 102-6 4/10/68

Surface Casing Change ☐
to _____

Rule C-3(c), Topographic exception/company owns or controls acreage
within a 660' radius of proposed site ☐

O.K. Rule C-3 ☐

O.K. In _____ Unit

Other:

☐ Letter Written/Approved

SCOTT M. MATHESON
Governor



OIL, GAS, AND MINING BOARD

GORDON E. HARMSTON
Executive Director,
NATURAL RESOURCES

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING
1588 West North Temple
Salt Lake City, Utah 84116
(801) 533-5771

CHARLES R. HENDERSON
Chairman

CLEON B. FEIGHT
Director

JOHN L. BELL
C. RAY JUVELIN
THADIS W. BOX
CONSTANCE K. LUNDBERG
EDWARD T. BECK
E. STEELE MCINTYRE

August 10, 1979

Burton/Hawks Drilling, Inc.
PO Box 359
Casper WY 82602

Re: East Cisco - Federal #1-1
Sec. 1, T. 20S. R, 23E.
Grand County
East Cisco Federal #1-4
Sec. 1, T. 20S., R. 23E.
Grand County

Dear Sir:

Insofar as this office is concerned, approval to drill the above referred to well is hereby granted in accordance with the Order issued in Cause No. 102-6 dated April 10, 1968.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

MICHAEL T. MINDER - Geological Engineer
HOME: 876-3001
OFFICE: 533-5771

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API numbers assigned to these wells are 43-019-30536 and 30537 in succession.

Sincerely,
DIVISION OF OIL, GAS AND MINING

MICHAEL T. MINDER
GEOLOGICAL ENGINEER

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

5. LEASE DESIGNATION AND SERIAL NO.

U-17049

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

East Cisco-Fed.

9. WELL NO.

#1-1

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC., T., R., M., OR BLE.
AND SURVEY OR AREA

Sec. 1, T20S-R23E

12. COUNTY OR PARISH 13. STATE

Grand

Utah

1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☒GAS
WELL ☐

OTHER

SINGLE
ZONE ☐MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

Burton/Hawks, Inc. [REDACTED]

3. ADDRESS OF OPERATOR

P.O. Box 359, Casper, Wyoming, 82602

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
At surface654' FWL 660' FSL Section 1, T20S, R23E, S.L.B. & M.
At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

9 miles North of Cisco, Utah

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any)

16. NO. OF ACRES IN LEASE

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17. NO. OF ACRES ASSIGNED
TO THIS WELL

40

18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

19. PROPOSED DEPTH

2900'

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

Ungraded ground 4773' elevation

22. APPROX. DATE WORK WILL START*

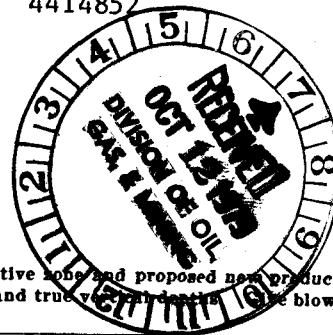
July 15

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
11'	8-5/8"	24.16	200'	To surface
7-7/8"	4-1/2"	10.60	2700'	Across pay

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IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. If blowout preventer program, if any.

SIGNED

TITLE Drilling Superintendent

DATE June 19, 1979

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE ACTING DISTRICT ENGINEER

DATE

OCT 10 1979

CONDITIONS OF APPROVAL, IF ANY:

CONDITIONS OF APPROVAL ATTACHED
TO OPERATOR'S COPY

*See Instructions On Reverse Side

NECESSARY FLARING OF GAS DURING
DRILLING AND COMPLETION APPROVED
SUBJECT TO ROYALTY (NTL-4)

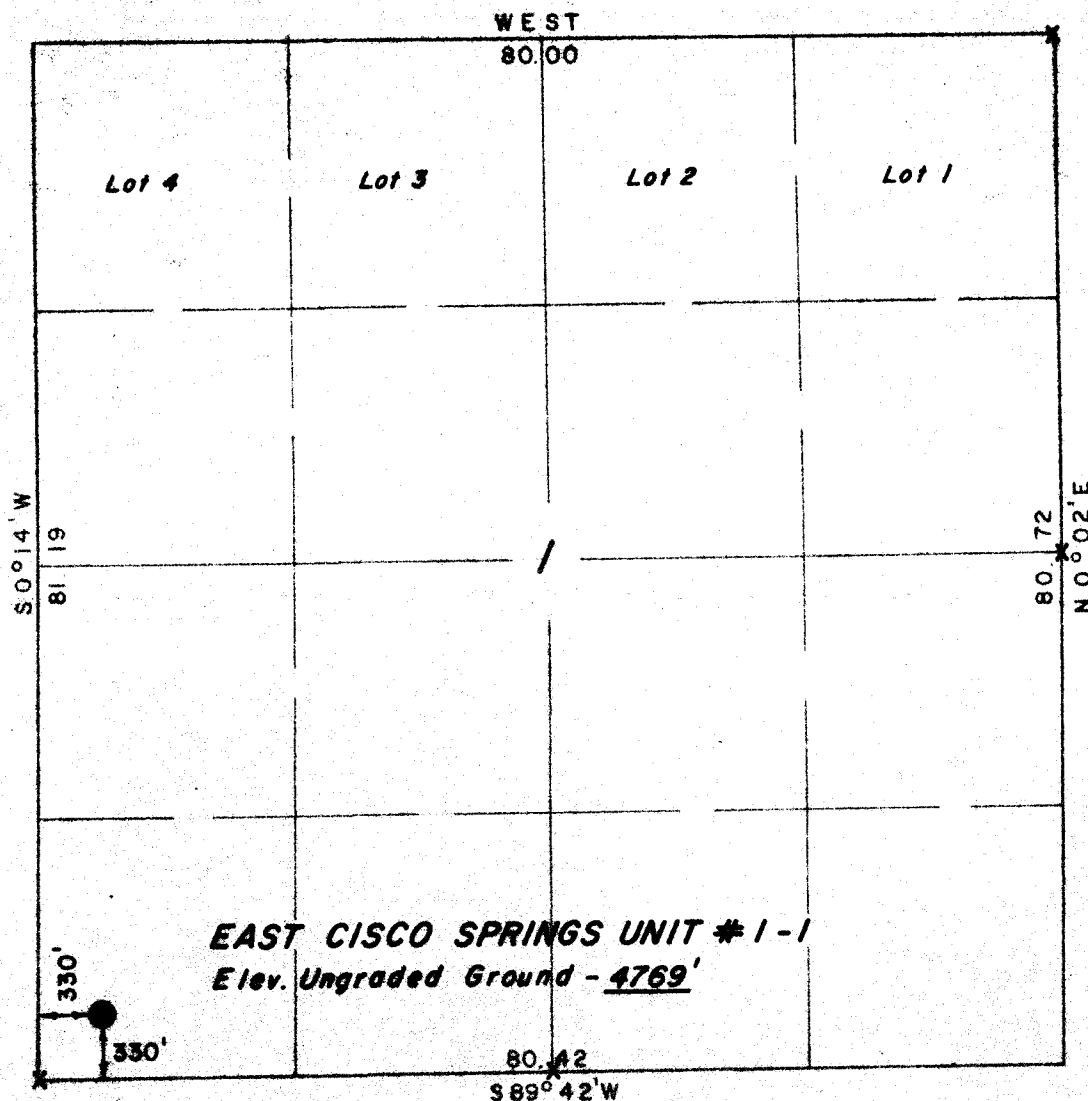
NOTICE OF APPROVAL

Ut State O&G

T 20 S , R 23 E , S.L.B. & M.

PROJECT
BURTON - HAWKS DRILLING CO.

Well location, **EAST CISCO SPRINGS UNIT #1-1**, located as shown in the SW 1/4 SW 1/4 Section 1, T20S, R23E, S.L.B. & M. Grand County, Utah.



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Sane Stewart

REGISTERED LAND SURVEYOR
REGISTRATION NO 3154
STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING
P.O. BOX Q - 110 EAST - FIRST SOUTH
VERNAL, UTAH - 84078

SCALE	1" = 1000'	DATE	8/3/79
PARTY	GS DS DW RP	REFERENCES	GLO Plat
WEATHER	Fair	FILE	BURTON - HAWKS

X = Section Corners Located

BURTON/HAWKS, INC.
10 POINT PROGRAM

Attachment to Form 9-331-C "Application to Drill, Deepen, or Plug Back".

1. GEOLOGIC NAME OF SURFACE FORMATION.

Cretaceous Mancos

2. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:

Cretaceous Dakota 1950

Javasic Morrison 2050

Salt Wash 2380

Entrada 2720

TD 2780

3. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS, OR OTHER MINERAL BEARING FMS.

Water 100' Oil 2380'

4. CASING PROGRAM:

200' 8 5/8 Production 4 1/2 10.60

5. BOP PROGRAM: (See attached Figure 3)

6. DRILLING FLUID:

Air

7. AUXILIARY EQUIPMENT:

1. Kelly Cock

2. Drill pipe float

3. Stabbing valve on floor

8. TESTING, LOGGING, OR CORING:

Gamma Ray - neutron

9. ABNORMAL PRESSURE OR TEMPURATURE:

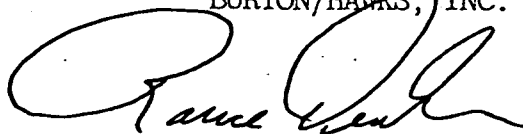
none

10. STARTING DATE:

September 1, 1979

Yours very truly,

BURTON/HAWKS, INC.



REW/grb

Rance Denton
Drilling Superintendent

Attachment: Figure 3 (BOP Stack Diagram)

CC:

BURTON - HAWKS
DRILLING COMPANY
EAST CISCO SPRINGS UNIT #1-1

PROPOSED LOCATION

TOPO.

MAP "A"



SCALE - 1" = 4 MI.



FROM : DISTRICT GEOLOGIST, E, SALT LAKE CITY, UTAH

TO : DISTRICT ENGINEER, O&G, SALT LAKE CITY, UTAH

SUBJECT: APD MINERAL EVALUATION REPORT

LEASE NO. U-17049

OPERATOR: Burton/Hawks, Inc.

WELL NO. #1-1

LOCATION: $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 1, T. 20 S., R. 23 E., SIM

Grand County, Utah

1. **Stratigraphy:** Operator projected tops appear reasonable, but oil and gas may be encountered at other intervals. Well no. 1-6 Bowers Federal (sw se sec. 6, T.20 S., R. 24 E., SIM gr 4695) reports initial production of 215 MCFGPD from the base of the Cedar Mt. Formation 1780-1786.

2. **Fresh Water:**

In the general area of the proposed test, fresh to slightly saline water has been produced from the Morrison Formation. The rocks above the Morrison are not expected to yield potable water.

3. **Leasable Minerals:**

None expected of any significance.

4. **Additional Logs Needed:**

APD proposed logging program should be adequate.

5. **Potential Geologic Hazards:**

None anticipated.

6. **References and Remarks:**

Within 1 1/2 miles of the Cisco Springs and Agate KGS.

Ref: USGS Map I-736, Utah State Engineer Tech. Pub. 15, USGS Files, Salt Lake City, Utah.

Signature: Allen E. Kahle

Date: 07 - 11 - 79

BURTON HAWKS DRILLING CO.

13 Point Surface Use Plan

For

Well Location

East Cisco Springs Unit #1-1

Located In

Section 1, T20S, R23E, S.L.B. & M.

Grand County, Utah

BURTON HAWKS DRILLING CO.
East Cisco Springs Unit #1-1
Section 1 , T20S, R23E, S.L.B. & M.

1. EXISTING ROADS

See attached Topographic Map "A".

To reach Burton Hawks Drilling Company, well location site East Cisco Springs Unit #1-1, located in the SW $\frac{1}{4}$ SW $\frac{1}{4}$ Section 1, T20S, R23E, S.L.B. & M., Grand County, Utah; proceed Northerly out of Cisco, Utah, on the old U.S. Highway 6, 5.4 miles to its junction with a road to the North-west; proceed Northwesterly along this road 5 miles to its junction with the proposed access road. (to be discussed in Item #2)

The Highway mentioned above is a bituminous surfaced road, all other roads in the area mentioned above are dirt roads constructed from the native materials that are prevalent to the areas they are located in.

There is no anticipated construction on any portion of the above described roads. They will meet the necessary standards required to facilitate an orderly flow of traffic during the drilling phase, completion phase, and the production phase of this well at such time that production is established.

The roads that are required for access during the drilling phase, completion phase, and production phase of this well, will be maintained at the standards required by the B.L.M. or other controlling agencies.

2. PLANNED ACCESS ROAD

See Topographic Map "B".

The proposed access road leaves the existing road in Lot 1, Section 1, T20S, R23E, S.L.B. & M. and proceeds in a Southwesterly direction 1.1 miles to the proposed location site in said Section 1.

In order to facilitate the anticipated traffic flow necessary to drill and produce this well, the following standards will be met:

The proposed access road will be an 18' crown road (9' either side of the centerline) with drain ditches along either side of the proposed road where it is determined necessary in order to handle any runoff from normal meteorological conditions that are prevalent to this area.

Back slopes along the cut areas of the road will be 1 $\frac{1}{2}$ to 1 slopes and terraced.

The road will be centerline flagged prior to the commencement of construction.

BURTON HAWKS DRILLING CO.
East Cisco Springs Unit #1-1
Section 1, T20S, R23E, S.L.B. & M.

2. PLANNED ACCESS ROAD - Continued

There will be two culverts required along this access road. These culverts will be placed under the direction of the B.L.M. and will meet their requirements. (See Topographic Map B)

The grade of this road will vary from flat to 8%, but will not exceed this amount. This road will be constructed from native borrow accumulated during construction.

If deemed necessary by the local governmental agencies or their representatives turnouts will be installed for safety purposes every 0.25 miles or on the top of ridges or at intervals and locations that will provide the greatest sight distance. These turnouts will be 200' in length and 10' in width and will be tapered from the shoulder of the road for a distance of 50' in length at both the access and outlet ends.

Any fences that are encountered along this road will be cut and replaced with a cattleguard with a minimum width of 18' and a loading factor large enough to facilitate the heavy trucks required in the drilling and production of this well.

If cattleguards are to be located at existing gates, they will be installed with the above requirements and with a new gate installed at one end of the cattleguard.

The access from the road to the gate will be of such a nature that there will be no impedance of traffic flow along the main access road and no difficulties encountered by traffic utilizing the gate, either leaving or entering the proposed access road.

The terrain that this access road traverses is relatively flat.

The vegetation of this route consists of sparse amounts of sagebrush, rabbitbrush, some grasses, and cacti with large areas that are devoid of vegetation.

3. EXISTING WELLS

See attached Topographic Map "B".

There is 1 well within a one mile radius of this location site. (See attached Topographic Map "B" for location of this well relative to the proposed location site.

BURTON HAWKS DRILLING CO.
East Cisco Springs Unit #1-1
Section 1 , T20S, R23E, S.L.B. & M.

3. EXISTING WELLS - Continued

There are no water wells, abandoned wells, temporarily abandoned wells, disposal wells, drilling wells, shut in wells, injection wells, monitoring or observation wells for other resources located within a one mile radius of this location site.

4. LOCATION OF EXISTING & PROPOSED FACILITIES

At the present time there are no known Burton Hawks Drilling Company tank batteries, production facilities, oil gathering lines, gas gathering lines, injection lines, or disposal lines within a one mile radius of this location site.

In the event that production of this well is established the existing area of the location will be utilized for the establishment of the necessary production facilities.

The total area that is needed for the production of this well will be fenced and cattleguards will be utilized for access to these facilities.

The area will be built if possible, with native materials and if these materials are not available then the necessary arrangements will be made to get them from private sources.

These areas will be built using bulldozers, graders, and workman crews to construct and place facilities.

It is not known at this time where production lines will be run. In the event production is established plans will be submitted to the appropriate agencies for approval before construction is begun.

If there is any deviation from the above, all appropriate agencies will be notified.

Rehabilitation of disturbed areas no longer needed for operations after construction is completed will meet the requirements of Item #10.

BURTON HAWKS DRILLING CO.
East Cisco Springs Unit #1-1
Section 1, T20S, R23E, S.L.B. & M.

5. LOCATION AND TYPE OF WATER SUPPLY

See Topographic Map "A".

Water to be used in the drilling of this well will be hauled from the Cisco, Utah, municipal water supply, this water will be hauled by truck over the roads described in Item #1 approximately 11 miles South of the location site.

In the event this is not a suitable source another source will be decided upon and all agencies involved will be notified.

There will be no water well drilled at this location site.

6. SOURCE OF CONSTRUCTION MATERIALS

All construction material for this location site and access road shall be borrow material accumulated during construction of the location site and access road. No additional road gravels or pit lining material from other sources are anticipated at this time, but if they are required, the appropriate actions will be taken to acquire them from private sources.

The native material that will be used in the construction of this location site and access road will consist of sandy-clay soil and sandstone and shale material gathered in actual construction of the road and location.

7. METHODS FOR HANDLING WASTE DISPOSAL

A reserve and burn pit shall be constructed, and at least half of the depth of the reserve pit shall be below the existing ground surface. All trash and flammable materials will be burned in the burn pit. Non-flammable material such as cuttings, salts, chemicals etc., will be buried in the reserve pit and covered with a minimum of four feet of earth material. Prior to the onset of drilling, the burn pit will be fenced on three sides. Upon completion of drilling the fourth side of the reserve pit will be fenced and allowed to dry completely before backfilling and reclamation are attempted.

A portable chemical toilet will be supplied for human waste.

All produced oil from this well will be contained in the storage tank and will be sold. Water, if any, which is produced will be run into a reserve pit as required in the NTL-2B Regulations.

BURTON HAWKS DRILLING CO.
East Cisco Springs Unit #1-1
Section 1, T20S, R23E, S.L.B. & M.

8. ANCILLARY FACILITIES

There are no ancillary facilities planned for at the present time and none foreseen in the near future.

9. WELL SITE LAYOUT

See attached location layout sheet.

The B.L.M. District Manager shall be notified before any construction begins on the proposed location site and road.

As mentioned in Item #7, the pits will be unlined unless it is determined by the representatives of the agencies involved that the materials are too porous and would cause contamination to the surrounding area; then the pits will be lined with a gel and any other type of material necessary to make it safe and tight.

When drilling activities commence, all work shall proceed in a neat and orderly sequence.

10. PLANS FOR RESTORATION OF SURFACE

As there is some topsoil on the location site, all topsoil shall be stripped and stockpiled. (See location layout sheet). When all drilling and production activities have been completed, the location site and access road will be reshaped to the original contour and stockpiled topsoil spread over the disturbed area. Fences around pits are to be removed upon completion of drilling activities and all waste being contained in the trash pit shall be buried with a minimum of 4' of cover. The reserve pit will be completely fenced and allowed to dry before covering. When restoration activities have been completed, the location site and access ramp shall be reseeded with a seed mixture recommended by the B.L.M. District Manager when the moisture content of the soil is adequate for germination. The Lessee further covenants and agrees that all of said cleanup and restoration activities shall be done and performed in a diligent and most workmanlike manner and in strict conformity with the above mentioned Items #7 and #10.

11. OTHER INFORMATION

The Topography of the General Area - (See Topographic Map "A").

The area is a large valley known as the Grand Valley, which is formed by the Book Cliff Mountains to the North and numerous mesa's to the South with the Colorado River running through the valley floor. The area is interlaced with numerous canyons and ridges which are extremely steep with numerous ledges formed in sandstone, conglomerates, and shale deposits.

BURTON HAWKS DRILLING CO.
East Cisco Springs Unit #1-1
Section 1, T20S, R23E, S.L.B. & M.

11. OTHER INFORMATION - Continued

The majority of the surrounding drainages are of a non-perennial nature with normal flow limited to the early spring and extremely rare heavy thunderstorms, or rain storms of high intensity that lasts over an extended period of time and are extremely rare in nature as the normal annual precipitation is only 8".

All drainages in the immediate area are non-perennial streams and flow to the South and are tributaries to the Colorado River.

The soils of this semi-arid area are of the Uinta Formation and Duchesne River Formation (the Fluvial Sandstone and Mudstone) from the Eocene Epoch and Quaternary Epoch (gravel surfaces) and the visible geologic structure consists of light brownish-gray clays (OL) to sandy soils (SM-ML) with poor gravels and shales with outcrops of rock (sandstone, mudstone, conglomerates, and shales).

Due to the low precipitation average, climatic conditions and the marginal types of soils, the vegetation that is found in the area are common of the semi-arid region we are located in and in the lower elevations of the Grand Valley. It consists of, as primary flora, areas of sagebrush, rabbitbrush, some grasses, and cacti, and large areas of bare soils devoid of any growth in the areas away from and in the vicinity of non-perennial streams and along the areas that are formed along the edges of perennial streams, cottonwood, willows, tamarack, sagebrush, rabbitbrush, grasses and cacti can be found.

The fauna of the area is sparse and consists predominantly of the mule deer, coyotes, pronghorn antelope, rabbits, and varieties of small ground squirrels and other types of rodents, and various reptiles common to this area.

The birds of the area are raptors, finches, ground sparrows, magpies, crows and jays.

The area is used by man for the primary purpose of grazing domestic livestock.

The Topography of the Immediate Area - (See Topographic Map "B")

East Cisco Springs #1-1 , sits on a relatively flat area below an area known as the Grassies.

BURTON HAWKS DRILLING CO.
East Cisco Springs Unit #1-1
Section 1 , T20S, R23E, S.L.B. & M.

11. OTHER INFORMATION - Continued

The geologic structure of the location is of Uinta Formation and consists of light brownish-gray clay (SP-CL) with some sandstone outcrops.

The ground slopes from the Northwest to the Southeast at approximately a 5% grade.

The location is covered with some sagebrush and grasses.

The total surface ownership effected by this location is owned by the B.L.M.

There are no occupied dwellings or other facilities of this nature in the general area.

There are no visible archaeological, historical, or cultural sites within any reasonable proximity of the proposed location site. (See Topographic Map "B").

12. LESSEE'S OR OPERATOR'S REPRESENTATIVE

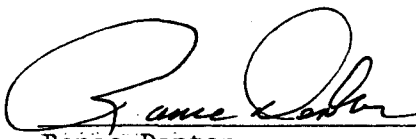
Rance Denton
Burton Hawks Drilling Co.
P.O. Box 359
Casper, Wyoming 82601

Telephone: 307-234-1593

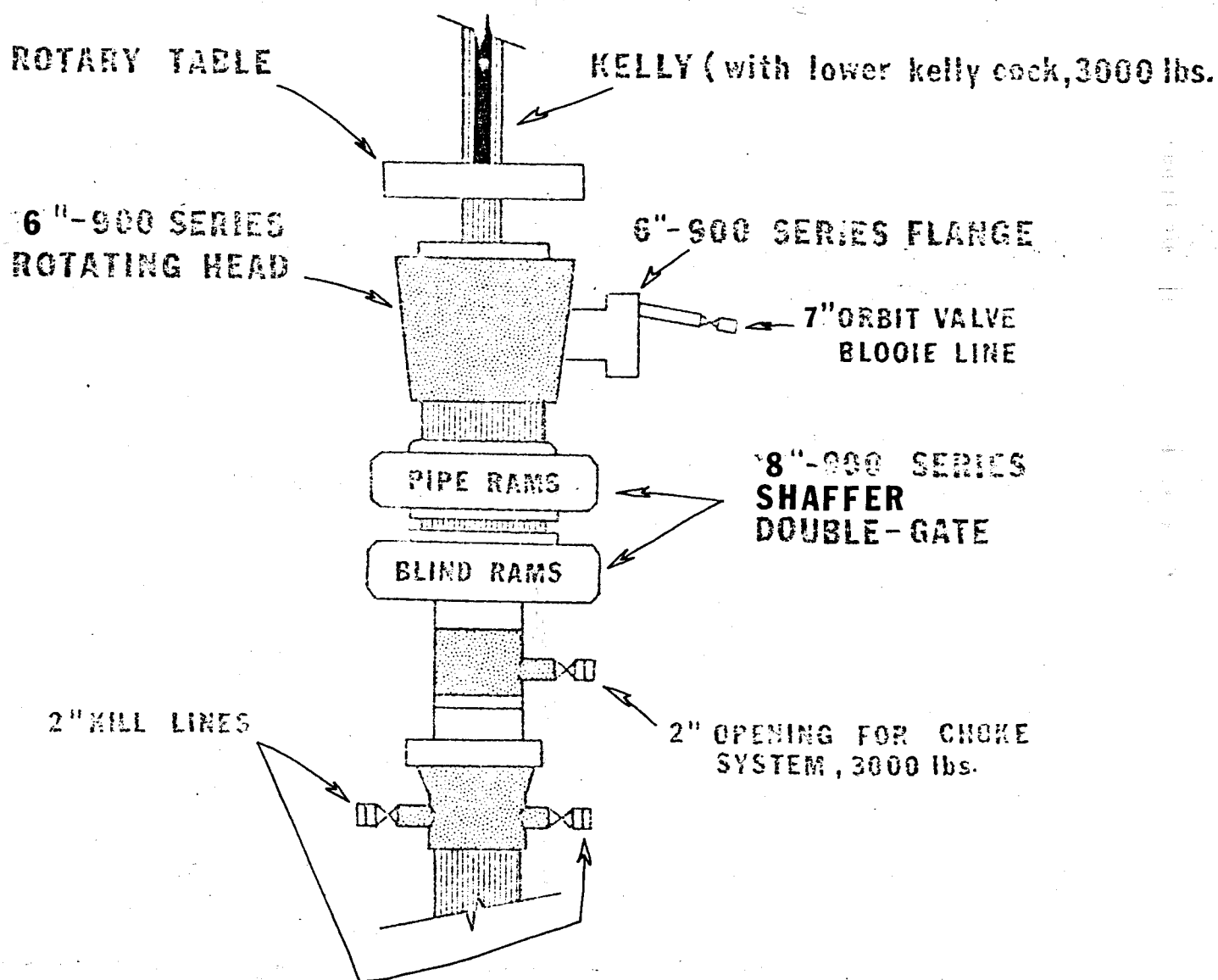
13. CERTIFICATION

I hereby certify that I, or persons under my direct supervision have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are to the best of my knowledge, true and correct; and that the work associated with the operation proposed herein will be performed by Burton Hawks Drilling Co. and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

6-19-79
Date


Rance Denton
Drilling Superintendent

BOP STACK



rig no. 3

NOT TO SCALE

United States Department of the Interior
Geological Survey
8440 Federal Building
Salt Lake City, Utah 84138

Usual Environmental Analysis

Lease No. U-17049

Operator Burton/Hawks, Inc. Well No. 1-1

Location 654' FWL 660' FSL Sec. 1 T. 20S R. 23E

County Grand State Utah Field Wildcat

Status: Surface Ownership Public Minerals Federal

Joint Field Inspection Date July 20, 1979

Participants and Organizations:

<u>Rocky Curnutt</u>	<u>Bureau of Land Management</u>
<u>John Evans</u>	<u>U. S. Geological Survey</u>
<u>Dallas Galley</u>	<u>Casada, Dirt Contractor</u>
<u>Gene Stewart</u>	<u>Operator's Representative</u>
<u></u>	<u></u>
<u></u>	<u></u>
<u></u>	<u></u>
<u></u>	<u></u>

Related Environmental Analyses and References:

- (1) Book Mountain Unit Resource Analysis, Bureau of Land Management, Utah
- (2)

Analysis Prepared by: John T. Evans, Environmental Scientist
Grand Junction

Date July 24, 1979

NOTED JOHN T. EVANS, JR.

7-25-79

*Pad 157x350
Pt 150x100
1/2 mi. 18' incl. access
Flow line not in
Storage - 2 ac
Mitigation 1-4*

Proposed Action:

On June 20, 1979, Burton Hawks filed an Application for Permit to Drill the No. 1-1 exploratory well, a 2900' oil and gas test of the Salt Wash Formation; located at an elevation of 4773' in the SW/4 SW/4, Sec. 1, T20S, R23E on Federal mineral lands and Public surface; lease No. U-17049. There was no objection raised to the wellsite nor to the access road.

A rotary rig would be used for the drilling. An adequate casing and cementing program is proposed. Freshwater sands and other mineral-bearing formations would be protected. A Blowout Preventor would be used during the drilling of the well. The proposed pressure rating should be adequate. Details of the operator's NTL-6 10-Point Subsurface Plan is on file in the U.S.G.S. District Office in Salt Lake City, Utah, and the U.S.G.S. Northern Rocky Mountain Area Office in Casper, Wyoming. The 13-Point Surface Protection Plan is on file in the District Office in Salt Lake City, Utah.

A working agreement has been reached with the Bureau of Land Management, the controlling surface agency. Rehabilitation plans would be decided upon as the well neared completion; the Surface Management Agency would be consulted for technical expertise on those arrangements.

The operator proposes to construct a drill pad 150' wide x 350' long and a reserve pit 100' x 100'. A new access road would be constructed 18' wide x 1.1 miles long from an existing and improved road. The operator proposes to construct production facilities on disturbed area of the proposed drill pad.

If production is established, plans for a gas flowline would be submitted to the appropriate agencies for approval. The anticipated starting date is July 1979 and duration of drilling activities would be about ten days.

Location and Natural Setting:

The proposed drillsite is approximately 9 miles NNE of Cisco, Utah, the nearest town. A fair dirt road runs to within 0.5 mile of the location. This well is a wildcat well in the Danish Wash gas and oil field.

Topography:

The proposed location is basically a low terrace or bench that trends east and west known as the Grassies. The ground slopes to the SE.

Geology:

The surface geology is Mancos. The soil is silty shales and gravels derived from Mancos parent material. No geologic hazards are known near the drill site. Seismic risk for the area is minor. Anticipated geologic tops are filed with the 10-Point Subsurface Protection Plan.

Approval of the proposed action would be conditioned that adequate and sufficient electric/radioactive/density logging surveys would be made to locate and identify any potential mineral resources. Production casing and cementing would be adjusted to assure no influence of the hydrocarbon zones through the well bore on these minerals. In the event the well is abandoned, cement plugs would be placed with drilling fluid in the hole to assure protection of any mineral resources.

The potential for loss of circulation would exist. Loss of circulation may result in the lowering of the mud levels, which might permit exposed upper formations to blow out or to cause formation to slough and stick to drill pipe. A loss of circulation would result in contamination due to the introduction of drilling muds, mud chemicals, filler materials, and water deep into the permeable zone, fissures, fractures, and caverns within the formation in which fluid loss is occurring. The use of special drilling techniques, drilling muds, and lost circulation materials may be effective in controlling lost circulation.

A geologic review of the proposed action has been furnished by the Area Geologist, U. S. Geological Survey, Salt Lake City, Utah.

The operator's drilling, cementing, casing and blowout prevention programs have been reviewed by the Geological Survey engineers and determined to be adequate.

Soils:

No detailed soil survey has been made of the project area. The topsoils in the area range from a sandy clay to a clay type soil. The soil is subject to runoff from rainfall and has a high runoff potential and sediment production would be high. The soils are mildly to moderately alkaline and support the salt-desert shrub community. The pinyon-juniper association is also present.

Topsoil would be removed from the surface and stockpiled. The soil would be spread over the surface of disturbed areas when abandoned to aid in rehabilitation of the surface. Rehabilitation is necessary to prevent erosion and encroachment of undesired species on the disturbed areas. The operator proposes to rehabilitate the location and access roads per the recommendations of the Bureau of Land Management.

Approximately two acres of land would be stripped of vegetation. This would increase the erosional potential. Proper construction practice, construction of water bars, reseeding of slope-cut area would minimize this impact.

Air:

No specific data on air quality is available at the proposed location. There would be a minor increase in air pollution due to emissions from

rig and support traffic engines. Particulate matter would increase due to dust from travel over unpaved dirt roads. The potential for increased air pollution due to leaks, spills, and fire would be possible.

Relatively heavy traffic would be anticipated during the drilling-operations phase, increasing dust levels and exhaust pollutants in the area. If the well was to be completed for production, traffic would be reduced substantially to a maintenance schedule with a corresponding decrease of dust levels and exhaust pollutants to minor levels. If the project results in a dry hole, all operations and impact from vehicular traffic would cease after abandonment. Due to the limited number of service vehicles and limited time span of their operation, the air quality would not be substantially reduced.

Toxic or noxious gases would not be anticipated. Operator would control dust from air drilling operations by misting or other acceptable methods.

Precipitation:

Annual rainfall should range from about 8 to 11" at the proposed location. The majority of the numerous drainages in the surrounding area are of a non-perennial nature flowing only during early spring runoff and during extremely heavy rainstorms. This type of storm is rather uncommon as the annual precipitation is around 8".

Winds are medium and gusty, occurring predominantly from west to east. Air mass inversions are rare. The climate is semiarid with abundant sunshine, hot summers and cold winters with temperature variations on a daily and seasonal basis.

Surface Water Hydrology:

There are no live streams in general area. All drainages in immediate area are nonperennial streams and flow to the south and eventually into the Colorado River.

Some additional erosion would be expected in the area since surface vegetation would be removed. If erosion became serious, drainage systems such as water bars and dikes would be installed to minimize the problem. The proposed project should have minor impact on the surface water systems. The potentials for pollution would be present from leaks or spills. The operator is required to report and clean up all spills or leaks.

Groundwater Hydrology:

Some minor pollution of groundwater systems would occur with the introduction of drilling fluids (filtrate) into the aquifer. This is normal and unavoidable during rotary drilling operations. The potential for communication, contamination, and commingling of formations via the well bore would be possible. The drilling program is designed

to prevent this. There is need for more data on hydrologic systems in the area and the drilling of this well may provide some basic information as all shows of fresh water would be reported. Water production with the gas would require disposal of produced water per the requirements of NTL-2B. The depths of freshwater formations are listed in the 10-Point Subsurface Protection Plan. The pits would be unlined. If fresh water should be available from the well, the owner or surface agency may request completion as a water well if given approval.

Vegetation:

Plants in the area are of the salt-desert shrub types grading to the pinyon-juniper association several miles to the north.

Proposed action would remove about two acres of vegetation. Removal of vegetation would increase the erosional potential and there would be a minor decrease in the amount of vegetation available for grazing.

The operator proposes to rehabilitate the surface upon completion of operations.

Wildlife:

Animal and plant inventory has been made by the BLM. No endangered plants or animals are known to inhabit the project area. The fauna of the area consists predominantly of mule deer, coyotes, rabbits, foxes, and varieties of small ground squirrels and other types of rodents and various types of reptiles. The area is used by man for the primary purpose of grazing domestic livestock and sheep. The birds of the area are raptors, finches, ground sparrows, magpies, crows, and jays.

Social-Economic Effect:

An on the ground surface archaeological reconnaissance would be required prior to approval of the proposed action. Appropriate clearances would then be obtained from the surface managing agency. If a historic artifact, an archaeological feature or site is discovered during construction operations, activity would cease until the extent, the scientific importance, and the method of mitigating the adverse effects could be determined by a qualified cultural resource specialist.

There are no occupied dwellings or other facilities of this nature in the general area. Minor distractions from aesthetics would occur over the lifetime of the project and are judged to be minor. All permanent facilities placed on the location would be painted a color to blend in with the natural environment. Present use of the area is grazing, recreation, and oil and gas activities.

Noise from the drilling operation may temporarily disturb wildlife and people in the area. Noise levels would be moderately high during drilling and completion operations. Upon completion, noise levels

would be infrequent and significantly less. If the area is abandoned, noise levels should return to pre-drilling levels.

The site is not visible from any major roads. —

The overall effect of oil and gas drilling and production activity is significant in Grand County but it is difficult to assess the environmental impact of a single well on state and/or national levels. However, if said well was to produce in sufficient quantity, additional development wells might be anticipated. This additional development, in turn, would lead to greater environmental and socioeconomic consequences.

Should the wellsite be abandoned, surface rehabilitation would be done according to the surface agency's requirements and to USGS's satisfaction. This would involve leveling, contouring, reseeding, etc., of the location and possibly the access road. If the well should produce hydrocarbons, measures would be undertaken to protect wildlife and domestic stock from the production equipment.

There are no national, state, or local parks, forests, wildlife refuges or ranges, grasslands, monuments, trails or other formally designated recreational facilities near the proposed location.

The proposed location is within the Book Mountain Planning Unit. This Environmental Assessment Record was compiled by the Bureau of Land Management, the surface managing agency of the Federal surface in the area. The study includes additional information on the environmental impact of oil and gas operations in this area and gives land use recommendations. The E.A.R. is on file in the agency's State offices and is incorporated herein by reference.

Waste Disposal:

The mud and reserves pits would contain all fluids used during the drilling operations. A trash pit would be utilized for any solid wastes generated at the site and would be buried at the completion of the operations. Sewage would be handled according to State sanitary codes. For further information, see the 13-Point Surface Plan.

Alternatives to the Proposed Action:

1) Not Approving the Proposed Permit--The Oil and Gas Lease grants the lessee exclusive right to drill for, mine, extract, remove and dispose of all oil and gas deposits. Under leasing provisions, the Geological Survey has an obligation to allow mineral development if the environmental consequences are not too severe or irreversible. Upon rehabilitation of the site, the environmental effects of this action would be substantially mitigated, if not totally annulled. Permanent damage to the surface and subsurface would be prevented as much as possible under U.S.G.S. and other controlling agencies' supervision with rehabilitation planning

reversing almost all effects. Additionally, the growing scarcity of oil and gas should be taken into consideration.

2) Minor relocation of the wellsite and access road would not significantly reduce the environmental impact. There are no severe vegetative, animal or archaeological-historical-cultural conflicts at the site. Since only a minor impact on the environment would be expected, the alternative of moving the location is rejected. At abandonment, normal rehabilitation of the area such as contouring, reseeding, etc., would be undertaken with an eventual return to the present status as outlined in the 13-Point Surface Plan.

Proposed Supplemental Conditions of Approval:

- 1) Dust from air drilling operation be controled by acceptable methods.
- 2) Operation has option to use trash burn pit rather than portable trash cage. Trash pits should be fenced with fine mesh wire prior to drilling.
- 3) Low water crossing would be installed in lieu of culverts.
- 4) Sundry Notice would be required for approval of production facilities. Notice should include plat of proposed locations of facilities; size, grade or pipe and whether buried or surface laid, etc.

Adverse Environmental Effects Which Cannot Be Avoided:

Surface disturbance and removal of vegetation from approximately two acres of land surface for the lifetime of the project which would result in increased and accelerated erosional potential. Grazing would be eliminated in the disturbed areas and there would be a minor and temporary disturbance of wildlife and livestock. Minor induced air pollution due to exhaust emissions from rig engines of support traffic engines would occur. Minor increase in dust pollution would occur due to vehicular traffic associated with the operation. If the well is a gas producer, additional surface disturbance would be required to install production pipelines. The potential for fires, leaks, spills of gas, oil or water would exist. During the construction and drilling phases of the project, noise levels would increase. Potential for subsurface damage to freshwater aquifers and other geologic formations exists. Minor distractions from aesthetics during the lifetime of the project would exist. If the well is a producer, an irreplaceable and irretrievable commitment of resources would be made. Erosion from the site would eventually be carried as sediment in the Colorado River. The potential for pollution to the surface water drainage system would exist through leaks and spills.

If well is a producer, other development wells would be anticipated with substantially greater environmental and economic impacts.

Determination:

This requested action does not constitute a major Federal action significantly affecting the environment in the sense of NEPA, Sec. 102(2)(C).

Date

8/10/79

E. W. Longman

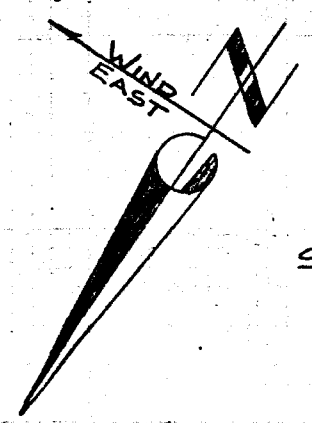
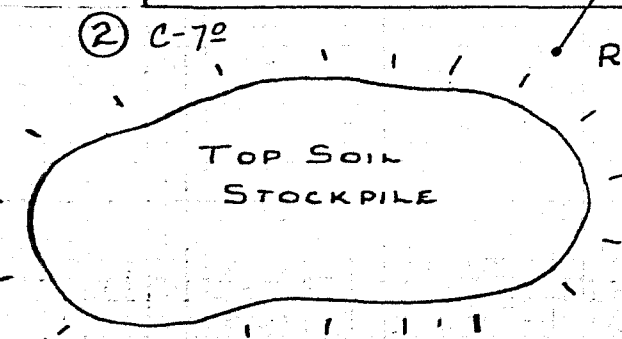
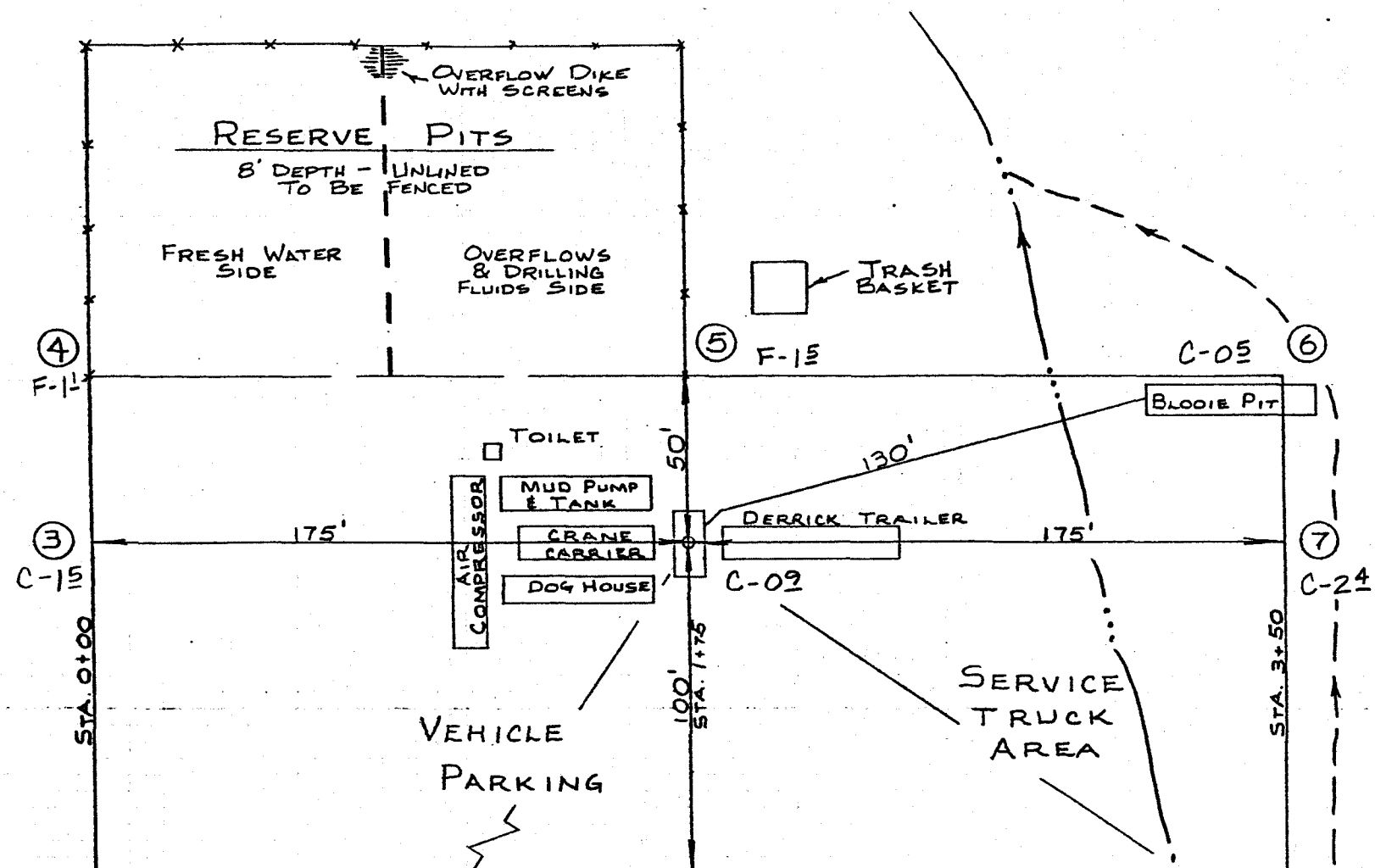
District Engineer
U. S. Geological Survey
Conservation Division
Oil and Gas Operations
Salt Lake City District



BURTON HAWKS DRILLING COMPANY

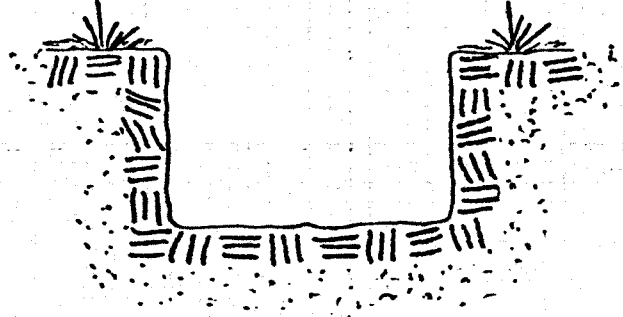
EAST CISCO SPRINGS UNIT #1-1 LOCATION LAYOUT & CUT SHEET

C
R
O
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I
O
N
S



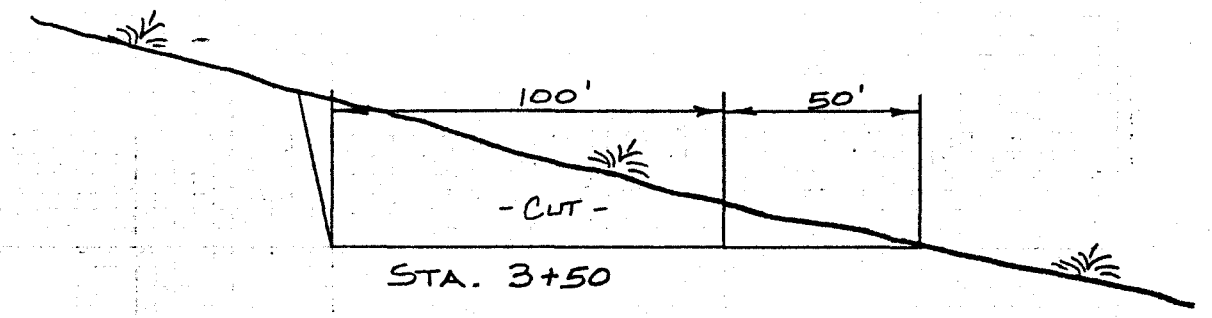
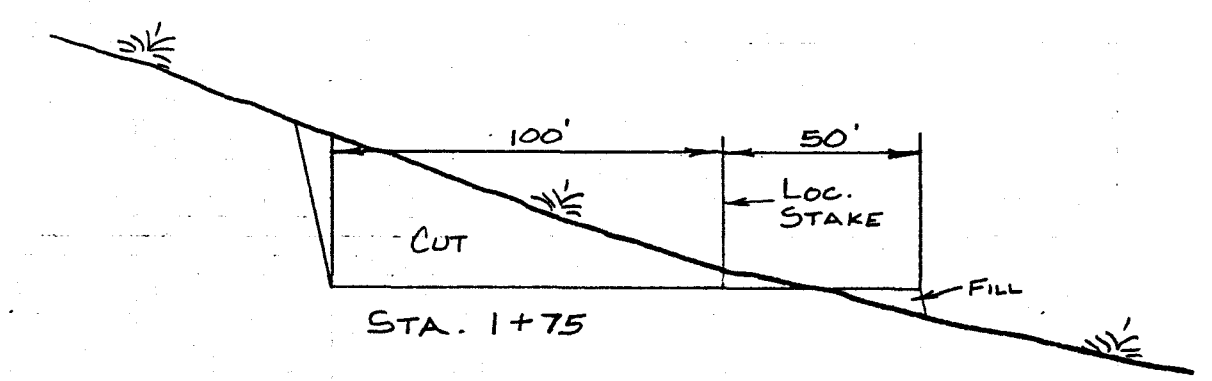
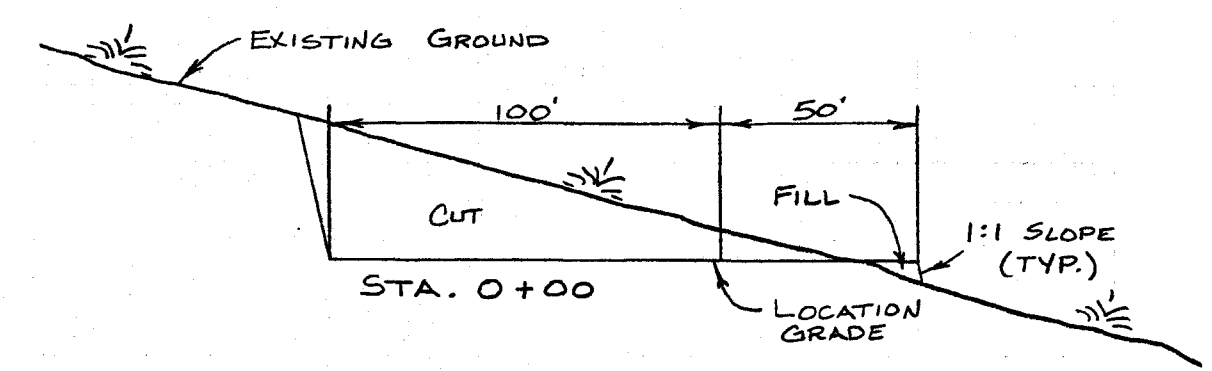
SCALE -
1" = 50'

SOILS LITHOLOGY
- NO SCALE -



EXISTING DRAINAGE
(TO BE RE-ROUTED)

RP 250' WEST
RP 300' WEST



1" = 10'
1" = 50'

SCALES

APPROX. YARDAGES

CUT - 6,572 CU. YDS.
FILL - 199 CU. YDS.

PROPOSED LOCATION



SCALE - 1" = 2000'

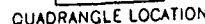
ROAD CLASSIFICATION

Light-duty road, hard or improved surface

Secondary highway,
hard surface

Unimproved road

○ State Route



PROPOSED LOCATION

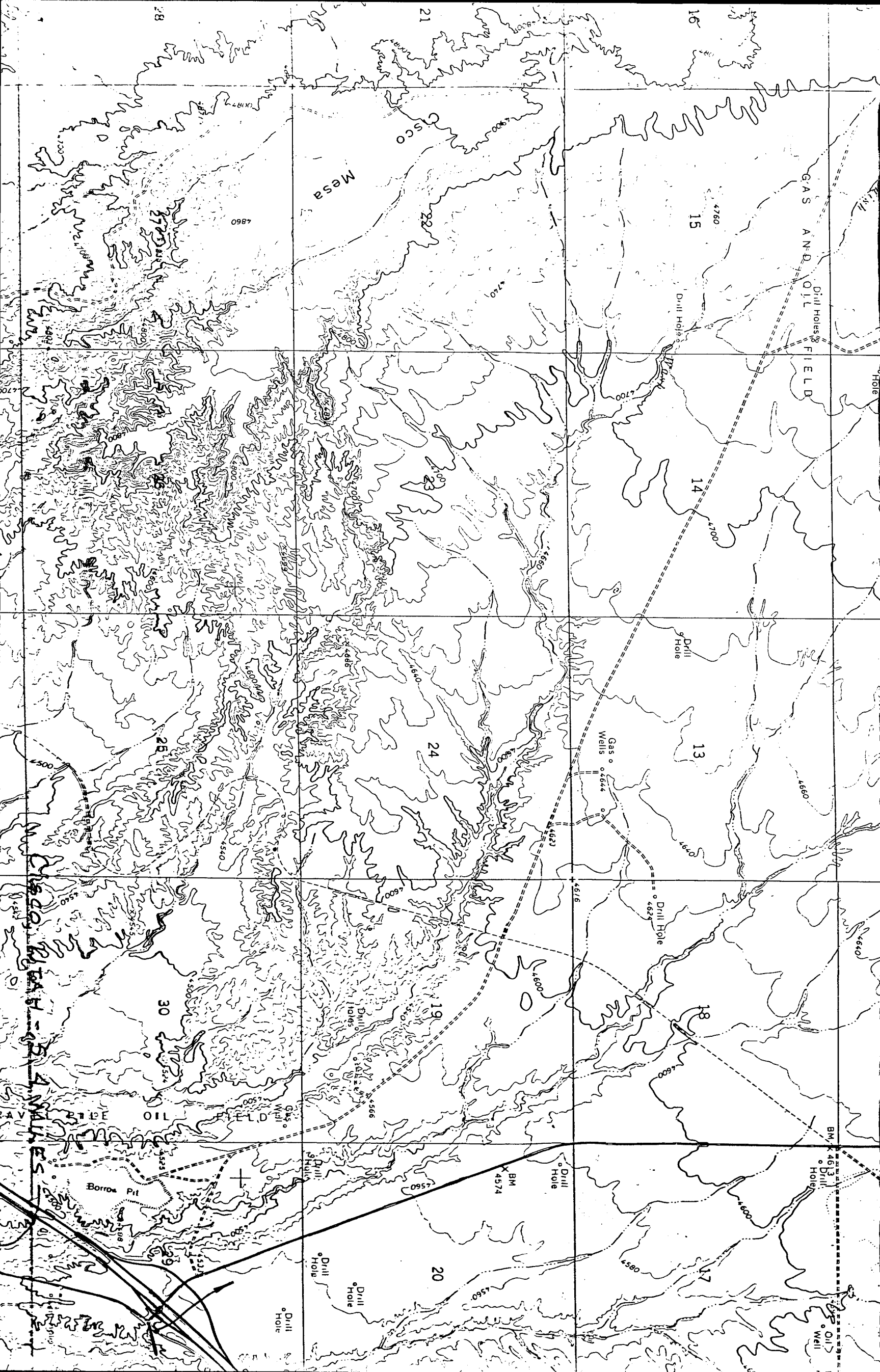
EAST CISCO SPRINGS UNIT # 1-1

PROPOSED ACCESS ROAD

R	R
23	24
E	E

U.S. MAIL

F L A



STATE OF UTAH)
 :
COUNTY OF SALT LAKE)

I, O.F. Duffield, being first duly sworn states that I know of my own knowledge that a well drilled by Four "D" Oil Company, located in the NW NW NW of Section 12, Township 20 South, Range 23 East, Grand County, Utah, was plugged and abandoned. Further, a well drilled by Burton/Hawks, Incorporated, located in the SW SW SW Section 1, Township 20 South, Range 23 East, Grand County, Utah was also plugged and abandoned. Further affidavit saith not.

IN WITNESS WHEREOF I have hereunto set my hand this 15th day of November, 1979.


O.F. Duffield

Signed in my presence this 15th day of November, 1979.


NOTARY PUBLIC

My Commission expires:

April 26, 1981

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN TRIPLICATE*
(Other instructions on re-
verse side)Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

U-17049

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

9. WELL NO.

East Cisco Federal #1-1

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC. T., R., M., OR BLK. AND
SURVEY OR AREA

Sec. 1, T20S, R23E, SIM

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

4773 GR; 4779 KB

12. COUNTY OR PARISH

Grand

13. STATE

Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

(NOTE: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

8 5/8" 24 lb. at 155 KB, Cement Circulated; TD 2646 (Driller); 2639 (Logger)

6 3/4 Hole Below Surface Pipe

Tops: Dakota 1808

Morrison 2010

Salt Wash 2250

Entrada 2600

Plugs

#1 2500 to 2600 with 25 sx.

#2 2150 to 2250 with 25 sx.

#3 1610 to 1810 with 50 sx.

#4 105 to 205 with 25 sx.

#5 Surface with 10 sx.

Mud in Hole: 8.5 lb., 85 Viscosity gel mud.

APPROVED BY THE DIVISION OF
OIL, GAS, AND MINING

DATE: 1-24-80

BY: M. J. Winkler

18. I hereby certify that the foregoing is true and correct

SIGNED

TITLE Consulting Engineer

DATE

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

U-17049

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

9. WELL NO.

East Cisco Federal #1-1

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

Sec. 1, T20S, R23E, S1M

12. COUNTY OR PARISH

Grand

13. STATE

Utah

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1.

OIL WELL ☐ GAS WELL ☐ OTHER ☒ Dry Hole

2. NAME OF OPERATOR

Burton/Hawks, Inc.

3. ADDRESS OF OPERATOR

P.O. Box 359, Casper, Wyoming 82602

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)

At surface

654' FWL, 660' FSL, SW SW

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

4773 GR; 4779 KB

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐

FRACTURE TREAT ☐

SHOOT OR ACIDIZE ☐

REPAIR WELL ☐

(Other) ☐

PULL OR ALTER CASING ☐

MULTIPLE COMPLETE ☐

ABANDON* ☐

CHANGE PLANS ☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐

FRACTURE TREATMENT ☐

SHOOTING OR ACIDIZING ☐

(Other) ☐

REPAIRING WELL ☐

ALTERING CASING ☐

ABANDONMENT* ☒

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

8 5/8" 24 lb. at 155 KB, Cement Circulated; TD 2646 (Driller); 2639 (Logger)

6 3/4 Hole Below Surface Pipe

Tops: Dakota 1808

Morrison 2010

Salt Wash 2250

Entrada 2600

Plugs

#1 2500 to 2600 with 25 sx.

#2 2150 to 2250 with 25 sx.

#3 1610 to 1810 with 50 sx.

#4 105 to 205 with 25 sx.

#5 Surface with 10 sx.

Mud in Hole: 8.5 lb., 85 Viscosity gel mud.

RECEIVED

JAN 22 1980

DIVISION OF
OIL, GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED

J. H. Burkhalter

TITLE

Ph: 303 242-6555
Consulting Engineer

DATE

1-11-80

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE

(See other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R355.5.

13

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL:		OIL WELL <input type="checkbox"/>	GAS WELL <input type="checkbox"/>	DRY <input checked="" type="checkbox"/>	Other <u>P&A'd - 10/31/79</u>		
b. TYPE OF COMPLETION:		NEW WELL <input type="checkbox"/>	WORK OVER <input type="checkbox"/>	DEEP-EN <input type="checkbox"/>	PLUG BACK <input type="checkbox"/>	DIFF. RESVR. <input type="checkbox"/>	Other <input type="checkbox"/>
2. NAME OF OPERATOR <u>Burton/Hawks, Inc.</u>						5. LEASE DESIGNATION AND SERIAL NO. <u>U-17049</u>	
3. ADDRESS OF OPERATOR <u>P.O. Box 359, Crsper, Wyoming 82602</u>						6. IF INDIAN, ALLOTTEE OR TRIBE NAME <u>---</u>	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface <u>654 FWL, 660 FSL, SW SW</u> At top prod. interval reported below At total depth						7. UNIT AGREEMENT NAME <u>---</u>	
14. PERMIT NO. <u>NA 10-31-79</u> DATE ISSUED <u>10-10-79</u>						8. FARM OR LEASE NAME <u>---</u>	
15. DATE SPUDDED <u>11-3-79</u> 16. DATE T.D. REACHED <u>11-7-79</u> 17. DATE COMPL. (Ready to prod.) <u>NA 10-31-79</u> 18. ELEVATIONS (DF, REB, RT, GR, ETC.)* <u>4773 GR; 4779 KB</u> 19. ELEV. CASINGHEAD <u>NA</u>						9. WELL NO. <u>East Cisco Federal #1-1</u>	
20. TOTAL DEPTH, MD & TVD <u>2746 MD</u> 21. PLUG, BACK T.D., MD & TVD <u>P & A</u> 22. IF MULTIPLE COMPL., HOW MANY* <u>---</u> 23. INTERVALS DRILLED BY <u>---</u> 24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* <u>NA</u> 25. WAS DIRECTIONAL SURVEY MADE <u>No</u>						10. FIELD AND POOL, OR WILDCAT <u>Wildcat</u>	
26. TYPE ELECTRIC AND OTHER LOGS RUN <u>DIL, FDC-CNL-GR</u>						11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA <u>Sec.1, T20S, R23E, SIM</u>	
27. WAS WELL CORED <u>No</u>						12. COUNTY OR PARISH <u>Grand</u>	
28. CASING RECORD (Report all strings set in well)						13. STATE <u>Utah</u>	
CASING SIZE		WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED	
8 5/8		24	150	11"	Circulated	None	
				6 3/4			
29. LINER RECORD						30. TUBING RECORD	
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
NA				NA	NA		
31. PERFORATION RECORD (Interval, size and number) <u>NA</u>						32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
						DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
						NA	
33.* PRODUCTION						WELL STATUS (Producing or Shut-in)	
DATE FIRST PRODUCTION <u>NA</u>		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or Shut-in)	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	GRAVITY-API (CORR.)	
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)							
35. LIST OF ATTACHMENTS <u>2 copies of Logs</u>							
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records							
SIGNED <u>J. H. Burkhardt</u>		TITLE <u>Consulting Engineer</u>				DATE <u>1-17-80</u>	

*(See Instructions and Spaces for Additional Data on Reverse Side)

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formations and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

[illegible]